

#2  
OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/912,020

DATE: 08/02/2001  
TIME: 10:50:18

Input Set : A:\001dvl.txt  
Output Set: N:\CRF3\08022001\I912020.raw

4 <110> APPLICANT: Zyskind, Judith  
 5       Ohlsen, Kari L.  
 6       Trawick, John  
 7       Forsyth, R. Allyn  
 8       Froelich, Jamie M.  
 9       Carr, Grant J.  
 10      Yamamoto, Robert T.  
 11      Xu, H. Howard  
 14 <120> TITLE OF INVENTION: GENES IDENTIFIED AS REQUIRED FOR PROLIFERATION IN  
 15      ESCHERICHIA COLI  
 17 <130> FILE REFERENCE: ELITRA.001DVL  
 C--> 19 <140> CURRENT APPLICATION NUMBER: US/09/912,020  
 C--> 19 <141> CURRENT FILING DATE: 2001-07-23  
 19 <150> PRIOR APPLICATION NUMBER: 09/492,709  
 21 <151> PRIOR FILING DATE: 2000-01-27  
 23 <150> PRIOR APPLICATION NUMBER: 60/117,405  
 25 <151> PRIOR FILING DATE: 1999-01-27  
 27 <160> NUMBER OF SEQ ID NOS: 485  
 29 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
 31 <210> SEQ ID NO: 1  
 32 <211> LENGTH: 159  
 33 <212> TYPE: DNA  
 34 <213> ORGANISM: E. Coli  
 36 <400> SEQUENCE: 1  
 37 -caggtggtat ggaaacccaa aatggagacg ggaagctgaa ccagatagtt actggagg 60  
 38 atcaccagca gatgaaataa cgataaccag aacaacgcct tatagcgttg agttgcgag 120  
 39 aaaacgttca tattgtacct ttttgattaa ccattgggg 159  
 41 <210> SEQ ID NO: 2  
 42 <211> LENGTH: 696  
 43 <212> TYPE: DNA  
 44 <213> ORGANISM: E. Coli  
 46 <220> FEATURE:  
 47 <221> NAME/KEY: misc\_feature  
 48 <222> LOCATION: (1)...(696)  
 49 <223> OTHER INFORMATION: n = A,T,C or G  
 51 <400> SEQUENCE: 2  
 52 gattacatca agcgccgcgtt gggtttaccg ggcgataaaag tcacttacga tccggctca 60  
 53 aaagagctga cgattcaacc gggatgcagt tccggccagg cgtgtaaaaa cgcgcgtccg 120  
 54 gtcacctact caaacgttgg aaccgagcgtt ttccgttccaga ccttctcacg ccgtaatgg 180  
 55 gggaaagcga ccagccggatt ctttgaagtccgaaaacg aaaccaaaga aaatggatt 240  
 56 cgtctttccg agcgtaaaga gacactgggt gatgtgacgc accgcattct gacagtgcgg 300  
 57 attgcgcagg atcagggtgg gatgttattac cagcagccag ggcaacaact ggcaacctgg 360  
 58 attgttcctc cgggacaata ctcatgtatgg ggcgacaacc gcgacaacag cgccggacac 420  
 W--> 59 cgttactggg gctttgtgcc ngaagcgaat ctggcggtc nggcaacggc tatctggatg 480  
 W--> 60 aacttcgata accaagaagg cgaatggccg aatgttctgc cctaantcgc attggcgnnt 540  
 W--> 61 ccnttaatan ccacttcctt cnctttgtcc ccttatggca acacttaatt tattntaaan 600  
 W--> 62 taatcncccgg tggctnacaa atccccgcct tttnttaaaa atttccccna anttaagg 660

ENTERED P.5

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W--> 63	ggcctccagt tgccgnccc aaacactttg gncccc	696
65 <210>	SEQ ID NO: 3	
66 <211>	LENGTH: 681	
67 <212>	TYPE: DNA	
68 <213>	ORGANISM: E. Coli	
70 <220>	FEATURE:	
71 <221>	NAME/KEY: misc_feature	
72 <222>	LOCATION: (1)...(681)	
73 <223>	OTHER INFORMATION: n = A,T,C or G	
75 <400>	SEQUENCE: 3	
76	ctgcaggta atgtcgccat taaaactggcg caggcagcca aagagttgct ccgttctac	60
77	ccagtcggca gcgacaacctt gcgttaaagt cgcaaaatta tcattctgcac tcactgcgtg	120
78	acgttaagcggt atggagtggc cggaaacccatc atagtgaccg cccaccagggtt ggctgcata	180
79	gttttgttagc gtacgcgcgg cattggcaat aagattcaga tactcagact ctccggggc	240
80	cttcgccagc ataaaagagg aggatgctcg cgtatgcagc aactgctcca gcgcatttg	300
81	cagccgcgggt tgagtatcac tgaataaaagg atcggtttcg tcaatcaaattt gtggctgagc	360
82	aaatatttcc tgatagttatc cggtatcagg aaccaggta cgcattcaaa gtttcgtat	420
W--> 83	ggtcaaagtt gatgtttttt agtctgttgc caaaagccgcn attataccng taaccggcac	480
84	tacagcacac gtagaaagca cccgacaata ctccgttgc gggcgtaaa gctcacagga	540
W--> 85	tggagatctt ttcttcactg gcctaaaaag ctgatattctt gtaaagagtt acacngtaac	600
W--> 86	attgagatcg ctatgaaata tcaacaactt ggaaatctt gnaaagcngg ttggaaaatg	660
87	gaaagtatct ggttaagaag C	681
89 <210>	SEQ ID NO: 4	
90 <211>	LENGTH: 289	
91 <212>	TYPE: DNA	
92 <213>	ORGANISM: E. Coli	
94 <400>	SEQUENCE: 4	
95	ggcagaattt tacgctgacc aatgacgcga cgacgtggca tggaaataact ccgttggtaa	60
96	ttcaggattt tccaaaactc tacgagtttta gtttgcatttta taagttaaaa cgtttggcct	120
97	tacttaacgg agaaccatttta agccttaga cgcttcacgc catacttggaa acgagcctgc	180
98	ttacggtctt taacgcggaa gcagtcaagc gcaccacgta cggtgtggta acgaacaccc	240
99	gggagggtctt taacacgacc gtcacggatc aggtcacgg agtgctcct	289
101 <210>	SEQ ID NO: 5	
102 <211>	LENGTH: 815	
103 <212>	TYPE: DNA	
104 <213>	ORGANISM: E. Coli	
106 <220>	FEATURE:	
107 <221>	NAME/KEY: misc_feature	
108 <222>	LOCATION: (1)...(815)	
109 <223>	OTHER INFORMATION: n = A,T,C or G	
111 <400>	SEQUENCE: 5	
112	gggagcttac atcagtaagt gaccggatg agcgagcgaa gataacgcattt ctgcggcg	60
113	aaatatgaag ggggagagcc cttatagacc aggttagtaca cgtttggta gggggcctgc	120
114	atatggccccc cttttcaactt ttttatatctt tgccgtttaa tgccggcag atcacatctc	180
115	cgaggattttt agaatggctg aaattaccgc atccctggta aaagagctgc gtgagcgtac	240
116	tggcgcaggc atgatggatt gcaaaaaaagc actgactgaa gctaacggcg acatcgagct	300
117	ggcaatcgaa aacatcgta agtccgggtc tattaaagca gcaaaaaaag caggcaacgt	360
118	tgctgctgac ggcgtgatca aaaccaaaaat cgacggcaac tacggcatca ttctggaaat	420
119	taactgccag actgacttcg ttgcaaaaaga cgctggtttc caggcgttcg cagacaaatg	480

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120	tctggacgca gctgttgctg gcaaaaatcac tgacgttgaa gttctgaaag cacagttcg	540
121	agaagaacgt gttgcgttgg tagcgaaaat tggtaaaaac atcaacattc gccgcgttgc	600
122	tgcgttggaa ggcgacgttc tgggttctta tcagcacggt gcgcgtatcg gccgttctgg	660
123	ttgctgctaa aagcgttgc acagaactgg ttaaacatcg ctttttgc acc ttgttgca	720
W--> 124	gccaaggccag aattcagaga aactttccgc ttcaccggag gtccccccca cangganccc	780
W--> 125	cgattnntc agcatggtgg tcttcctncg gagtt	815
127	<210> SEQ ID NO: 6	
128	<211> LENGTH: 403	
129	<212> TYPE: DNA	
130	<213> ORGANISM: E. Coli	
132	<400> SEQUENCE: 6	
133	caacactatt ttgttgaccg gaaaaatggaa cactttccgc aatgcctgtt gctatcacgc	60
134	ttaaaccatt tcattgcgtt ttacacagaa cgacgttgc gtcgcgttat attaagtgcgt	120
135	cgtatagaaac aagcattgaa aggacacgca gtatcggaa ac agtgtgaaac gctactggcg	180
136	ccttacagcg caaaaaggct ggttactaaa aagtccaccag ccatcggcctt gatttctcag	240
137	gctgcaaccg gaagggttgg ctatattaaac ttcaacttca gcccggcctt ctccggcggc	300
138	tttttcaatgt gcttctgcgt cgttgcgtt cacccttctt ttcagagcag ccgggtgcaga	360
139	ttctaccagg tcttttagt ttttccatggacc caggccagg tgcg	403
141	<210> SEQ ID NO: 7	
142	<211> LENGTH: 149	
143	<212> TYPE: DNA	
144	<213> ORGANISM: E. Coli	
146	<400> SEQUENCE: 7	
147	gagctttttt cagtgcgttgc gcttcacgccc ttctttcaga gcaaggccgg	60
148	cagattctac caggcttta gcttcttca gacccaggcc agttgcgccg cgtactgcgtt	120
149	tgataacagc aactttgtta gcccggc	149
151	<210> SEQ ID NO: 8	
152	<211> LENGTH: 742	
153	<212> TYPE: DNA	
154	<213> ORGANISM: E. Coli	
156	<220> FEATURE:	
157	<221> NAME/KEY: misc_feature	
158	<222> LOCATION: (1)...(742)	
159	<223> OTHER INFORMATION: n = A,T,C or G	
161	<400> SEQUENCE: 8	
162	ccatctgtcc attgagcggc cagttttgtgc aacactattt ttttgcggg aaaaatggaaac	60
163	actttccgcgca atgcgttgcgtt ctatcacgtt taaaaccattt cattgcgtt tacacagaac	120
164	ggacgttgcgtt tcgcgttata ttaagtgcgtc gatagaaaca agcattgaaa ggacacggc	180
165	tagtcaaaaca gtgtgaaacg ctactggcgcc cttacagcgcc aaaaaggctg gtgactaaaa	240
166	agtcaccaggc catcggcgtt atttctcagg ctgcacccgg aagggttggc ttatattaaact	300
167	tcaacttcag cggccgttcc ttccagagct ttttgcgtt cttctgcgtc gtctttgcgtc	360
168	acgccttctt tcagacggc cgggtgcagat tctaccagg ttttgcgtt cttctgcgtc	420
169	aggccagggtt cggccacgtac tgctttgata acagcaactt ttttgcgtt cttctgcgtc	480
W--> 170	agaattacgt cgaattcgt tntttcttca gcagcttcaa ccggggccggc agctacagct	540
171	acagcggcggc caagcgaaa caccggattt ttcttccattt gcagatcgatca gttctacaac	600
172	cgtccattac agacatagct gcaactgcgtt caatgattttt gatcttttagt ggatagacat	660
W--> 173	ttaaattgtt cctgaattat caagaaataa gtnttatacg taagccggaaa tgcgttaaaa	720
W--> 174	aagataactg ngattaaagc ag	742
176	<210> SEQ ID NO: 9	

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177 <211> LENGTH: 421  
 178 <212> TYPE: DNA  
 179 <213> ORGANISM: E. Coli  
 181 <400> SEQUENCE: 9  
 182 agtagtcaaa cagtgtgaaa cgctactggc gccttacagc gcaaaaaggc tggtgactaa 60  
 183 aaagtccacca gccatcagcc tgatttcgtca ggctgcaacc ggaagggttg gtttatttaa 120  
 184 cttcaacttc agcgccagct tcttccagag ctttttcag tgcttctgcg tcgtcttgc 180  
 185 tcacgccttc ttccagagca gcccgtgcag attctaccag gtcttagct tcttccagac 240  
 186 ccaggccagt tgcgccacgt actgcttga taacagcaac ttgttagcg ccagcagctt 300  
 187 tcagaattac gtcgaattca gtttttctt cagcagcttc aaccggcca gcagctacag 360  
 188 ctacagcagc agcagcggaa acaccgaatt tttcttccat tgcagagatc agttctacaa 420  
 189 c 421  
 191 <210> SEQ ID NO: 10  
 192 <211> LENGTH: 126  
 193 <212> TYPE: DNA  
 194 <213> ORGANISM: E. Coli  
 196 <400> SEQUENCE: 10  
 197 agagctttt tcagtgcgtc tgcgtcgctc ttgctcacgc ctttttcag agcagccgg 60  
 198 gcagattcta ccaggtctt agtttttc agacccaggc cagttgcgcc acgtactgct 120  
 199 ttgata 126  
 201 <210> SEQ ID NO: 11  
 202 <211> LENGTH: 262  
 203 <212> TYPE: DNA  
 204 <213> ORGANISM: E. Coli  
 206 <220> FEATURE:  
 207 <221> NAME/KEY: misc\_feature  
 208 <222> LOCATION: (1)...(262)  
 209 <223> OTHER INFORMATION: n = A,T,C or G  
 211 <400> SEQUENCE: 11  
 212 ctgcaaccgg aagggttggc ttatctaact tcaacttcag cgccagcttc ttccagagct 60  
 W--> 213 tttttcagtg cttctgcgtc gtctttgcgtc acgccttctt tcagagcagc cgnntgcagat 120  
 214 tctaccaggt cttagcttc ttccagaccc agggcagttg cgccacgtac tgcttgcata 180  
 215 acagcaactt tgttagcgcc agcagcttc agaattacgt cgaattcagt tttttcttca 240  
 216 gcagcttcaa cggggccagc ag 262  
 218 <210> SEQ ID NO: 12  
 219 <211> LENGTH: 202  
 220 <212> TYPE: DNA  
 221 <213> ORGANISM: E. Coli  
 223 <220> FEATURE:  
 224 <221> NAME/KEY: misc\_feature  
 225 <222> LOCATION: (1)...(202)  
 226 <223> OTHER INFORMATION: n = A,T,C or G  
 228 <400> SEQUENCE: 12  
 229 ggcgcataaccc tgcagcatcg gcccgtatggc gatcaggatcg gcagaacgct gtaccgctt 60  
 W--> 230 gtaggtgggtt acccggtgn tcagatccgg gaagatgaac acggtagcgc gacctgcaac 120  
 W--> 231 cggagagttc ggcgtttgg attncgcaac gtcagccatt accgcagcgt cgtactgcag 180  
 232 cggaccggcg atcatcaggt ca 202  
 234 <210> SEQ ID NO: 13  
 235 <211> LENGTH: 261

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236 <212> TYPE: DNA  
 237 <213> ORGANISM: E. Coli  
 239 <400> SEQUENCE: 13  
 240 tctaggagta agaatagctt caaattcagc agttgacagt ggcataaacg taactggta 60  
 241 cttttgcccg gcatgacgccc gggctttttt tattattccg tgacttccag cgtatgtaaag 120  
 242 gcaaacttct cgccatcaaa tagccccctga ctggtagtt tttagcgcggg gatcactggc 180  
 243 agagaaaagaa acgcacatctg aataaacggc tcacggta acggaccgca ttcacggcgc 240  
 244 gcggcttca aggctgtcaat t 261  
 246 <210> SEQ ID NO: 14  
 247 <211> LENGTH: 224  
 248 <212> TYPE: DNA  
 249 <213> ORGANISM: E. Coli  
 251 <400> SEQUENCE: 14  
 252 ttctttttt cgtcaacggt gtccagaatc attttattta ctcgggtta ctatgctga 60  
 253 ttttattat tatggggaaag gtgttattta tgatgttcat ttatgccgtt acgacaatgtaa 120  
 254 actcggaaat tagtataagc agcgcgagaa taataatcat tgtgcaatgt ctaatttaat 180  
 255 taataactatt taaatattat tttgagcata tgcacataag gttg 224  
 257 <210> SEQ ID NO: 15  
 258 <211> LENGTH: 232  
 259 <212> TYPE: DNA  
 260 <213> ORGANISM: E. Coli  
 262 <400> SEQUENCE: 15  
 263 aattcccttc ttttttcgtt caacgggttc cagaatcattt ttatcacctt cgggtactta 60  
 264 tgctgattttt tattattatg gggaaagggtgt tatttatgag tttcattttt gccgtaacgt 120  
 265 caatgaactc gggaaattttt ataaggcagcg cgagaataat aatcatgtt caaatgtt 180  
 266 ttaattttt actatttaaa tatttttg agcatatgtca cataagggtt gg 232  
 268 <210> SEQ ID NO: 16  
 269 <211> LENGTH: 212  
 270 <212> TYPE: DNA  
 271 <213> ORGANISM: E. Coli  
 273 <400> SEQUENCE: 16  
 274 aatagcgggt atgcacgcct ttctttttt cgtcaacggt gtccagaatc attttattta 60  
 275 cctcgggtac ttatgtgtat ttttattttt atggggaaagg tgtttattttt gagtttattt 120  
 276 tatgccgtaa cgacaatgaa ctcggaaattt agtataagca ggcgcgagaat aataatcatt 180  
 277 gtgcaaatgc taattttt aataactattt aa 212  
 279 <210> SEQ ID NO: 17  
 280 <211> LENGTH: 433  
 281 <212> TYPE: DNA  
 282 <213> ORGANISM: E. Coli  
 284 <400> SEQUENCE: 17  
 285 ctttgtaaat tatgcggcggtt ggcataaaaaa ctgcgtccaa acggcgctt tgccagcagc 60  
 286 caggccataa atgcacccagg aattatcgctc aaccaaccaa ttgctgaaac gccaagcagc 120  
 287 agcggggccgg agagctgtttt cagttcgcgcg ggttacccctt caatccattt gcccgcagtc 180  
 288 cacagcaaca tggatgcctct gtacaacccctt aacgtgccaa gggtgcaac aatggcagg 240  
 289 atcttttagcc acgcgaccagg gacaccgtt aaaaatcccg cgagcaacc aagcgtaaa 300  
 290 gtcgcgacac aagcaacagg tagtgaatat cctgcgttca gtaacatccc caacagcacc 360  
 291 ggcacatcccgtaatcgaa acccactgaa acatcaatat tgcgcgttaag cattaccagg 420  
 292 gtcgcgccccca ttg 433  
 294 <210> SEQ ID NO: 18

→ Use of n and/or Xaa has been detected in the Sequence Listing.  
 Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY  
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L:19 M:270 C: Current Application Number differs, Replaced Current Application No  
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:61 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:63 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:441 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26  
L:490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28  
L:516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29  
L:567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32  
L:568 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32  
L:601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34  
L:602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34  
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39  
L:681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39  
L:720 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:723 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42

**VERIFICATION SUMMARY**

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Input Set : A:\001dv1.txt

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L:760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44  
L:781 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45  
L:782 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45  
L:783 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45  
L:12516 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:403  
L:12527 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:404